USSR/Cultivated Plants - Fruits and Berries.

IUMAKSYKY Did.

M-5

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10989

Author

: Kovalev, N.V., Tupitsyn, D.I.

Inst

: Fruit and Berry Institute imeni Shreder, Central Asian Station of the VIR /All-Union Institute of Plant Culti-

vation . Chinese Pears in Central Asia.

Orig Pub

: Izv. AN UzSSR, 1956, No 8, 97-98

Abstract

On the territory of Uzbekistan the Fruit and Berry Institute imeni Shreder and the Central Asian Station of the All-Union Institute of Plant Husbandry have collected a significant quantity of varieties of Chinese pear species. Observations have demonstrated that the Chinese pear growing in Central Asia are resistant to heat and diseases. It is recommended that more be introduced into cultivation. A description of them is given.

Card 1/1

TUPITSTN. D.I. kand. sel'skokhozyaystvennykh nauk

Winter bardiness and biology of development of fruit buds in the plume of Uzbekistan. Trudy po prikl. bat., gen. i sel. 30 no. 3:224-247 '57.

(Uzbekistan-Plum)

(Bµds)

USSR/Cultivated Plants - General Problems.

М.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15462

Author

: N.V. Kovalev, K.S. Glushchenko, D.I. Tupitsyn

Inst

: Shreder Fruit and Berry Institute.

Title

: Fruit and Berry Crops in the Down Stream Region of the

Amu-Dar'ya.

(Plodovyye i ovoshchnyye kul'tury v nizov'yakh Amu-

Dar'i).

Orig Pub

: V sb.: Materialy po proizvodit. silam Uzbekistana.

Vyp. 2. Tashkent, AN U2SSR, 1956, 5-89.

Abstract

: In the down stream regions of the Arm-Dar'ya in Kara-Kalpak ASSR and Khorezmskaya Oblast' the garden areas may be increased from 3200 hectares to 15-20 thousand hectares. The results of the study made by the Expedi-

tion of the Fruit and Berry Institute im. Shreder are

Card 1/3

USSR/Cultivated Plants - General Problems.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15462

discussed which was rade in this zone in 1951-1953. The Tashauzskaya Oblast' of Turkmenistan has also been investigated. The cultivation of apples, grapes and aprocots is recommended. At present apples occupy 5-11% of all the orchard area. Recommended varieties are the white rosemary, Simirenko rennet, Orleans rennet, the summer golden parmen, the Grayma golden, Kandil'-Sinap, the jonathan, Borovinka, the melba, and among the new varieties, the gulyandom, Tallya-alma, the Tashkent rennet, and several local varietties. At the Khorezmsk Oasis the pear crop goes back ~2 thousand years. Seven percent of the area of the new orchards (~2 thousand hectares) is planned for pears. The local varieties of apricots are classified and the best of these are recommended. The local apricot varieties exhibit greater winter hardiness, heat resistance and salt resistance. The local forms of pear, apricot, plum, cherry,

Card 2/3

5

- 1. KOVALEV, N. V., TUPITSYN, D. I.
- 2. USSR (600)

- 4. Main Turkmen Canal Region Apple
- 7. Apple trees in commercial fruit culture in the Main Turkmen Canal region. Sad i og. no. 10, '52.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510008-7"

TUPITSYN, I.F.; SEMENOVA, N.K.

STREET, STREET,

Kinetics of deuterium-protium exchange in pyridine dissolved in liquid ammonia. Trudy GIPKH no.49:120-132 '62.

Isotopic effects in the reactions of hydrogen exchange in liquid ammonia. Ibid.:133-140

Distribution of deuterium between the ring and alkyl group in the ethylbenzene molecule in the isotopic excannge with liquid DBr. Ibid.:159-161 (MIRA 17:11)

TUPITSYN, I.F.; KOMAROV, V.I.

Hydrogen rearrangement in purrole. Trudy GIPKH no.49:141-142 '62.
(MIRA 17:11)

MEHITARYAN, L.S.; ANDREYEVA, T.M.; TUPITSIN, G.I.

Electrodeposition of metals on chromium. Biul.tekh.-ekon.inform.
no.11:63-64 '60.

(Electroplating)

(Electroplating)

SOV/137-58-11-23085

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 170 (USSR)

AUTHORS: Tupitsyn, G. I., Mkhitar'yan, L.S.

TITLE: Investigation of Protective Properties of Metallic Coatings (Issledo-

vaniye zashchitnykh svoystv metallicheskikh pokrytiy)

PERIODICAL: V sb.: Korroziya i zashchita metallov. Moscow, Oborongiz, 1957,

pp 145-183

ABSTRACT: A s

A study was made of the comparative characteristics of the corrosion behavior of 30KhGSA steel protected by various metallic coatings. In the atmosphere of an industrial area (urban Moscow), the protective properties of a Zn coating are considerably higher than those of a Cd coating; in a marine atmosphere (city of Batumi) and in a corrosion chamber filled with fresh water fog Zn and Cd coatings 5  $\mu$  thick provide protection for steel for 5 years; and upon full immersion in running fresh water or intermittent immersion in synthetic sea water Cd coatings 10  $\mu$  thick protect steel for 3 years. Chrome-, nickel- and tin-plated specimens corrode rapidly upon intermittent immersion in synthetic sea water and also in the atmosphere of the industrial area

Card 1/2

of Moscow; upon full immersion in tap water Ni and Cr coatings from

SOV/137 58-11-23085

Investigation of Protective Properties of Metallic Coatings

5 to 50  $\mu$  thick provide protection of specimens for 3 years; in the Batumi atmosphere coatings of Ni, Cr, and Sn 20  $\mu$  thick showed good protective properties. Composite coatings (Ni-Cu-Cr, Cu-Ni-Cr, Cu-Cr) provided a good protection for steel during 3 years of full immersion in running tap water; with intermittent immersion coatings up to 35  $\mu$  thick corroded quickly, while composite coatings with a toal thickness of the layer greater than 20  $\mu$  provided protection in a fresh water fog chamber for 3 years; Cr coatings with an undercoat, with a total thickness of 20  $\mu$ , provide protection for 4.5 years in the Batumi atmosphere; Ni coatings under these conditions protect steel but the Ni itself is rapidly attacked; the protective properties of composite coatings 35  $\mu$  thick in an industrial atmosphere are low; the best protection is provided by a Cr coating in a Ni-Cu-Cr combination.

L. A.

Card 2/2

TUPITSYN, G.I.; SHEYKO, T.S.; YAKIMOV, S.Ya., red.; ANTONOVA, S.D., red.izd-va; VLADIMIROVA, M.S., tekhm.red.

[Industrial safety and sanitation in electroplating shops]
Tekhnika bezopasnosti i proizvodstvennaia sanitariia v
gal'vanicheskikh tsekhakh. Izd.2., perer. Moskva, Oborongiz, 1963. 206 p. (MIRA 17:3)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510008-7"

86160

S/193/60/000/011/017/022 A004/A001

187400 1087

Mkhitaryan, M. S., Andreyeva, T. M., Tupitsyn, G. I.

TITLE:

**AUTHORS:** 

Electrodeposition of Metals on Chromium  $\, \, {f {\cal V}} \,$ 

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 11,

pp. 63-64

TEXT: When depositing a nickel layer of approximately 25  $\mu$  on a chromium plating a cracking of the chrome is not observed even at temperatures considered high for nickel and chromium. In order to obtain a strong bond between the chromium and nickel layers a special technology has been developed to prepare the chromium-plated surface. The chromium-plated parts are degreased in an ordinary alkali bath. After being washed in hot and cold running water the component is pickled in 50% hydrochloric acid and held until a uniform gassing can be observed over the whole surface. Then the components are nickel-plated in one of the electrolytes the composition of which is shown in the following table:

A) electrolyte composition; B) component concentration in the electrolytes;
1) nickel-chloride, gram/liter; 2) nickel-sulfate, gram/liter; 3) hydrochloric

Card 1/3

**86160** \$/193/60/000/011/017/022 A004/A001

Electrodeposition of Metals on Chromium

acid, milliliter/liter (specific gravity 1.19); 4) sulfuric acid, milliliter/liter (specific gravity 1.84); 5) current density,  $a/dm^2$ ; 6) temperature, centrigrades; 7) electrolysis time.

Состав электролита	В Концентраци:	я компонентов в	электролитах
, 1 Состав электролита	1-#	2-й	3-h
У Хлористый никель, г/л  Сериокислый никель, г/л  Сориокислый никель, г/л  Соляная кислота, мл/л (уд. вес 1,19)  Сериая кислота, мл/л (уд. вес 1,84)  Плотность тока, α/дм²  / Температура, град.  / Время электролиза	220—250 — 250—350 - 30—40 18—40 20—40 сек	200—246 ———————————————————————————————————	300-400 

X

After a preliminary nickel-plating in the electrolytes 1 and 2, final nickel-plating takes place in the No. 3 electrolyte at a current density in the range of  $5-8 \text{ a/dm}^2$  for one hour to a thickness of  $50-75\,\mu$ . In some cases the preliminary nickel plating can be omitted. The nickel deposits obtained by the method

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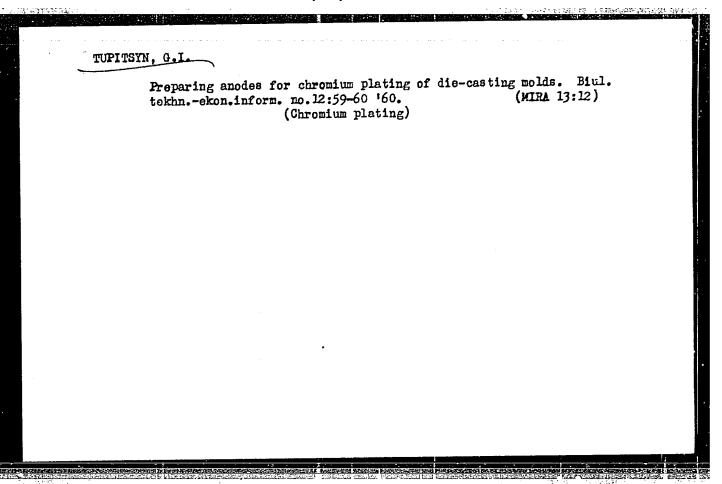
Electrodeposition of Metals on Chromium

S/193/60/000/011/017/022 A004/A001

described are characterized by their high oxidation resistance and strong bond between the inner (chromium) and outer (nickel) layer. No flaking or blistering occurs in such coatings even at high temperatures in the range of 800 - 1,000°C.

 $\mathcal{I}$ 

Card 3/3



TUPITSYN, G. 1.

# PHASE I BOOK EXPLOITATION

935

- Korroziya i zashchita metallov (Corrosion and Protection of Metals) Moscow, Oborongiz, 1957. 366 p. 3,000 copies printed.
- Ed. (title page): Ambartsumyan, R. S., Doctor of Technical Sciences, Professor; Ed. (inside book): Lagovskaya, M. S., Tech. Ed.: Rozhin, V. P.; Managing Ed.: Latynin, Ye. V.
- PURPOSE: This book is intended for engineering, technical, and scientific personnel at industrial plants, research institutes, and design offices working in the field of corrosion-protection of stainless steel, high-strength structural steel, and light alloys.
  - COVERAGE: The book contains a collection of articles which deal with the corresion and passivity of metals in various oxidizing media, corrosion of high-strength steels under tension, corrosive cracking, intergranular corrosion and pitting of aluminum alloys, and with certain questions of the anodic oxidation of these alloys. Articles on the corrosive cracking of magnesium alloys and means of protection against it are also included.

Card 1/4.

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S/193/60/000/012/015/018 A004/A001

AUTHOR:

Tupitsyn, G. I.

TITLE:

Manufacturing Anodes for the Chrome-Plating of Press Molds

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No.12, pp.59-60

TEXT: Since the throwing power of chromium electrolytes is rather low, which leads to a non-uniform distribution of the chrome coat on the press-mold surface, new profiled anodes have been developed which have the shape of the part being chrome-plated. Each surface section of these anodes is located at the same

distance from the press-mold being chrome-plated. The best material for such anodes is a lead alloy containing 6-8% antimony. The clearance between anode and cathode should be 2-6 mm, provided the press-mold design permits such an arrangement. The necessary clearance on the inner surface of the press-mold (in the vertical plane) is ensured by an aluminum-plate lining - or of the AMu (AMts) alloy. The illustration shows the outer view of a press mold ready for

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Manufacturing Anodes for the Chrome-Plating of Press Molds

the anode filling.

Figure:

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1 - aluminum lining; 2 - recesses; 3 - studs.

For the escape of the gas liberated during the chrome-plating process one or several holes are provided in the press-mold. These holes are easily made during the pouring by inserting aluminum tubes of the necessary diameter (10 - 20 mm) in those spots were an accumulation of the liberated gas is likely. The tubes are fixed prior to the pouring of the lead alloy. The cooled anode is shaken out from the press mold and uneven spots are cleaned. To ensure the given position of the anode relative to the cathode, fixing pins with caps of insulating material are fitted to the upper edge of the press-mold, while the anodes are equipped with the corresponding recesses. Anodes of the described shape ensure the deposition of a uniform chromium layer in the range of 5 - 25 \mu. After operation the anodes should be cleaned daily from lead chromate in a 7-10% aqueous solution of caustic soda for 20 - 50 minutes and then carefully washed with warm water. Aggood cleaning effect is also attained by the cathode treatment (15 - 20 amp/dm) of anodes in an alkali solution, for 8 - 10 minutes at room temperature. There is 1 figure.

TUPITSYM, G. I., Engr. Cand. Took. Sci.

Dissertation: "Properties of Porous Chromium Plating." All-Union Sci Fee Inst of

SC: Vechernyaya Moskys, Mar, 1947 (Project #17836)

Aviation Materials-VIAM, 28 Mar A7.

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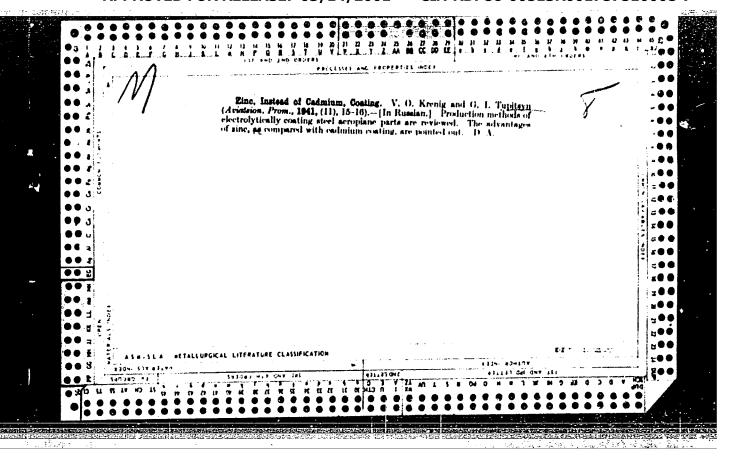
TUPITSYN, G. I., Engineer

"Properties of Porous Chromium Plating." Sub 28 Mar 47, All-Union Sci Res Inst of Aviation Materials (VIAM)

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum. No. 457, 18 Apr 55

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ABRAMOV, F.A., prof.; TUPITSYN, G.M., dotsent; RIPP, M.G.; MILETICH, A.F.

DGI axial, compressed-air driven fans. Izv. DGI 31:125-130 '58.

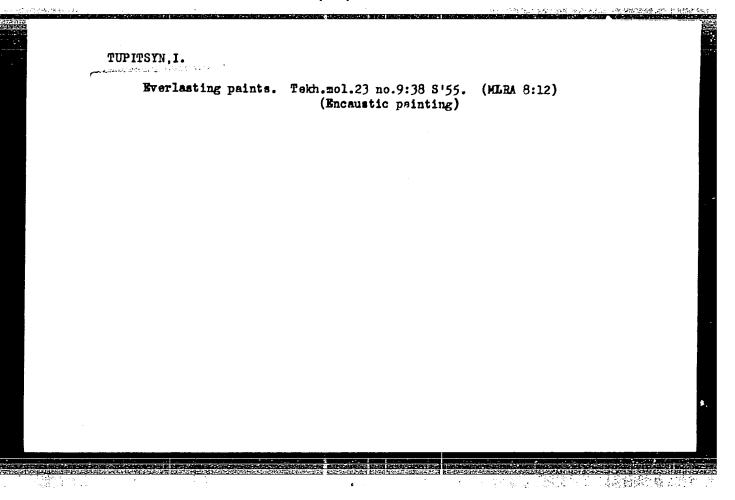
(Fans, Mechanical--Pneumatic driving)

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TUPITSYN, G.M., kand.tekhn.nauk [deceased]; MURZIN, V.A., kand.tekhn.nauk; TSEYTLIN, Yu.A., kand.tekhn.nauk

Results of experimental studies of the performance of 0%-500-92 turbocompressors. Ugol' Ukr. 5 no.4:20-21 Ap '61. (MIRA 14:4)

1. Dnepropetrovskiy gornyy institut.
(Coal mines and mining-Equipment and supplies)
(Compressors)



TVERDOVSKIY, I.P.; TUPITSYN.		
Nickel boride catalys	ts. Probl. kin. i kat. 9:84-9 (Catalyst, NickelSpectra)	00 '57.(NIBA 11:3)

TUPITSYN, I. F.; KOMAROV, V. I.; Prinimala uchastiye BUTVINKINA, A. A.

Study of the migration of deuterium from the hydraxyl group to the phenol ring. Zhur. ob. Khim. 34 no.6:1703-1710 Je 164.

(MIRA 17:7)

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... IVEITSYN, I.F.

21(7)

PHASE I BOOK EXPLOITATION SOV/1378

Sovremennoye oborudovaniye dlya raboty s radioaktivnymi izotopami; sbornik materialov (Modern Equipment for Working With Radioactive Isotopes; Collection of Materials) Moscow, Izd-vo glavnogo upravleniya po ispol'zovaniyu atomnoy energii pri sovete M-va SSSR, 1958. 110 p. (Series: Atomnaya energiya. Prilozheniye, 1958, no. 5) 8,450 copies printed.

Ed.: Zavodchikova, A.I.; Tech. Ed.: Popova, S.M.

PURPOSE: This book is intended for personnel engaged in activities involving the use of radioactive isotopes.

COVERAGE: This is supplement No. 5 to the periodical Atomnaya energiya for 1958. It contains 3 articles dealing with modern techniques, methods and apparatus for handling radioactive isotopes and may serve as a handbook in this respect. Schematic diagrams and illustrations of modern equipment for the remote handling of radioactive materials are given, as well as detailed descriptions of working principles.

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Modern Equipment (Cont.) SOV/1378	
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CIA-RDP86-00513R001757510008-7"

AUTHORS:

Bochkarev, V. V., Kulish, Ye. Ye., Tupitsyn, I. F.

TITLE:

Some Technical and Technological Problems in the Production of Radioactive Isotopes and Tracer Compounds in the USSR (Nekotoryye tekhnicheskiye i tekhnologicheskiye voprosy proizvodstva radioaktivnykh izotopov i mechenykh soyedineniy v SSSR)

PERIODICAL:

Atomnaya energiya, 1958, Supplement 5, pp 5 - 25 (USSR)

ABSTRACT:

In 1958, 110 radioactive isotopes were produced commercially. 92 of them were formed by neutron irradiation. Prior to the irradiation the initial materials must be purified, if possible, so that in the subsequent processing of the radioactive elements the impurity activities do not yield too much waste. Tery often it is possible to carry out the irradiations with enriched isotopes such as Fe55, Sn123, Te127, So75, Cd115. The portions irradiated fluctuate between 0.5, 1.0, 10 and 20 cm<sup>3</sup> and were contained either in aluminum containers, boron-free glass bottles or plastic containers. The irradiation periods for isotopes with a half-life up to 3 days is 6, 9 or 15 hours. Isotopes with a half-life period of 3-30 days are

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**APPROVED FOR RELEASE: 03/14/2001** 

Some Technical and Technological Problems in the SOV/89S-58-5-1/4 Production of Radioactive Isotopes and Tracer Compounds in the USSR

irradiated for 30 days. Isotopes with a half-life of more than 30 days (S35, Ca45) are kept in the reactor for 90 days. For the production of the isotopes c14 and c136 the initial material is irradiated for 6 to 12 months. In order not to disturb the most favorable reactor flux distribution on the feeding of the reactor with the ampoules to be irradiated a load diagram of the single irradiation chambers was set up prior to the experiments. The feeding in the different channels is therefore carried out in such a way that the original flux distribution is maintained. The irradiated samples are treated radiochemically and the desired radioactive isotopes are separated. In certain cases certain compounds are marked by these radioactive isotopes. The still high amounts of the preparations are then divided and filled into smaller ampoules. In the USSR 280 of the 450 chemical compounds produced in the usual way were produced which are synthesized from C14, S35, H3, P32, C136. For the production of tracer compounds only 1 or 2 initial materials are used for the isotopes mentioned above. In this connection it is often necessary to build-in the radioactive atoms into a

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Some Technical and Technological Problems in the SOV/89S-58-5-1/4 Production of Radioactive Isotopes and Tracer Compounds in the USSR

product. The possible intermediate products are listed in a table. The possibilities based on the synthetic method are mentioned by which various compounds marked with \$35 can be obtained from barium sulfate as an initial substance. The discharge channels and boxes used in the laboratories are equipped with manipulators or gripping gloves. Moreover, they are equipped with filters collecting the aerosols and gaseous impurities. Furthermore, these rooms are equipped with own water, gas and vacuum supplies and dispose of special channels for the removal of radioactive waste products. Photographic

Card 3/4

Some Technical and Technological Problems in the SOV/89S-58-5-1/4 Production of Radioactive Isotopes and Tracer Compounds in the USSR

representations are shown of 4 types of these boxes. Other very important appliances used in these radioactive laboratories are remote-control tools such as tongs, pincers, mirrors etc. Remote-controlled cutting tools, soldering bits etc. play an important part too. For the manipulation of very small volumes of active liquid volumes hydromanipulators, automatic remote-controlled burettes and pipettes are used. It is possible, for instance, to decant volumes 0.1 - 100 ml in accurate doses by means of such a hydromanipulator. Before dispatch each preparation is closely examined. The physicochemical constants, the content of the main components, the total and the specific activity, the share of the active and inactive impurities are determined. As an example it is described how the content of the y-isomer Cl36m is determined in a hexachlorane preparation not yet purified. The quantitative determination of small concentrations is carried out mainly by spectrum analysis or by the polarographic method. Marked preparations used for medical or biological purposes are additionally examined as to their content of physiologically important admixtures. There are 14 figures and 2 tables.

Card 4/4

76-32-2-17/38

AUTHORS:

Tupitsyn, I. F., Tverdovskiy, I. P.

TITLE:

Investigations of the Process of the Dehydrogenation of a Skeleton Nickel Catalyst (Issledovaniye protsessa obezvodorozhivaniya skeletnogo nikelevogo katalizatora) I. The Investigation of the Dehydrogenation Process by Means of Electrochemical Methods (I. Izucheniye protsessa obezvodorozhiva-

niya elektrokhimicheskimi metodami)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 2, pp. 349-354

(USSR)

ABSTRACT:

This is a lecture held at the conference on the use of the methods of marked atoms in chemical industry, which took place from March 1 - 3, 1955. Data on the hydrogen content in skeleton nickel catalysts obtained according to various methods (References 1, 2 and 3) are given. It is shown that even with similar conditions of production of the catalyst samples the a values (hydrogen volume per gram of catalyst

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samples the  $\mathbf{q}_{\mathrm{H}}$  values (hydrogen volume per gram of catalyst) hardly agree  $^{\mathrm{H}2}$  at all. In order to find the reasons for this

76-32-2-17/38

Investigations of the Process of the Dehydrogenation of a Skeleton Nickel Catalyst. I. The Investigation of the Dehydrogenation Process by Means of Electrochemical Methods

divergence those processes which occur on the surface of the dehydrogenated catalyst in the presence of other substances, which could lead to the formation of additional hydrogen quantities (or on the other hand to the interruption of hydrogen separation) were investigated. It was found that in the case of an anode polarization by small amperages the skeleton nickel catalyst in the vicinity of the reversible hydrogen potential reacts like an electrochemically active nickel electrode. The method of charge curves was used for the determiration of the nature of processes observed in the dehydrogenation of the skeleton nickel catalyst in aqueous alkaline medium. It is shown that in the case of dehydrogenation from the skeleton nickel by means of easily hydratable compounds processes occur on the surface of the catalyst the nature of which is about the same as in the case of the application of a small anode polarization with nickel. In both cases besides the dehydrogenation of the hydrogen enclosed in the catalyst two processes compete with each other, that is to say, the phase decomposition of nickel under formation of Ni(OH)2

Card 2/3

76-32-2-17/38

Investigations of the Process of the Dehydrogenation of a Skeleton Nickel Catalyst. I. The Investigation of the Dehydrogenation Process by Means of Electrochemical Methods

and the passivation of the surface. There are 5 figures, 1 table, and 17 references, 12 of which are Soviet.

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii, Leningrad

(State Institute for Applied Chemistry, Leningrad)

SUBMITTED: November 3, 1956

1. Nickel catalysts--Dehydrogenation 2. Hydrogen--Determination

3. Nickel--Decomposition 4. Nickel--Passivity

Card 3/3

المناط ال

AUTHORS:

Tupitsyn, I. P., Yverdovskiy, I. P.

76-32-3-15/43

TITLE:

An Investigation of the Process of Dehydrogenation of a Skeleton Nickel Catalyst (Issledovaniye protsessa obezvodorozhivaniya skeletnogo nikelevogo katalizatora). II. The Use of Methods of Vacuum Dehydrogenation and Isotopic vilution for the Determination of the Content of Sorbed Hydrogen (Ispol'zovaniye metodov vakuumnogo obezvodorozhivaniya i izotopnogo razbavleniya dlya opredeleniya soderzhaniya sorbirovannogo vodoroda)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 3,

pp. 598-602 (USSR)

ABSTRACT:

The present paper investigates whether additional separation of hydrogen takes place during vacuum dehydrogenation in a steam atmosphere. In order to determine the quantity of hydrogen sorbed by a gram of skeleton nickel, the latter was produced with the use of a "heavy" alkali (with a certain content of deuterium) by leaching out aluminum from the aluminum-nickel alloy. The weighed portion of the deuterium-containing catalyst was treated with an acid, and

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1.11

deuterium-containing catalyst was broaden and in the gas formed from it, the deuterium content was

An Investigation of the Process of Dehydrogenation 76-32-3-15/43 of a Skeleton Nickel Catalyst.

II. The Employment of Methods of Vacuum Dehydrogenation and Isotopic Dilution for the Determination of the Content of Sorbed Hydrogen

other methods; determined. Beside the advantages over this one has the disadvantage that hydrogen and deuterium are chemically not identical and that thus the calculation of the effects is incorrect. From the description of the experimental part, it follows that an arrangement was used which also served for vacuum dehydrogenation, possessing a U-shaped manometer and ca MacLood manometer, moist sample was heated to 100-300°C and that the produced hydrogen is cooled by liquid-air cooling and measured in a measurement system. In the performed experiments, it was noticed that the nickel powder heated to 300°C is pyrophoric, which wanishes at 800°C; this is traced back to the property of the surface of finely dispersed nickel. The results of the experiments show that in the vacuum method, the moisture exerts an influence upon the dehydrogenation. Quantities of 25-40 ml H<sub>2</sub>/g (at above 100°C) which formed from the surface moisture were determined in the

Card 2/3

An Investigation of the Process of Dehydrogenation 76-32-3-15/43 of a Skeleton Nickel Catalyst.

II. The Employment of the Methods of Vacuum Dehydrogenation and Isotopic Dilution for the Determination of the Content of Sorbed Hydrogen

experiments. This is ascribed to the too high values of Bougault (ref 4)  $q_{\rm H_2} \approx$  140 ml  $_{\rm H_2}/g$  and

the latter must be corrected, as the present results according to both methods (the vacuum and the isotopic method) yielded a value of 20-30 ml  $H_2/g$ . This is in

agreement with the data by Mozingo (reference 6) who, however, performed a different treatment of samples.

There are 1 figure, 3 tables, and 8 references, 6 of which

are Soviet.

ASSOCIATION: Institut prikladnoy khimii, Leningrad

(Leningrad, Institute of ipplied Chemistry)

SUBMITTED: November 3, 1956

Card 3/3

TUPITSYN, I.F.; TOMARCHENKO, S.L., red.

[Chemistry and technology of isotopes] Khimiia i tekhnologiia izotopov; sbornik statei . Moskva, Khimiia, 1964. 181 p. (MIRA 18:5)

1. Leningrad. Gosudarstvennyy institut prikladnoy khimii.

ZATSEPINA, N.N.; TUPITSYN, I.F.; EFROS, L.S.

Hydrogen-isctope exchange in methyl derivatives of nitrogen heterocycles and their N-exides. Part 2: Reactivity and electron structure of ischeric picolins, their N-exides, and quaternary selts. Zhur. cb.khim. 34 no.12:4065-4071 D \*64 (MIRA 18:1)

Nydrogen-isotope exchange in methyl groups of nitrogen heterocycles derivatives and their N-oxides. Fart 3: Reactivity and electron structure of d methyl substituted heterocycles and their N-oxides. Ibid.:4072-4080

# S/0081/64/000/001/B064/B064

ACCESSION NR: AR4020482

SOURCE: RZh. Khimiya, Abs. 1B455

AUTHOR: Tupitsy\*n, I.F.; Semenova, N. K. TITLE: A study of isotopic effects during exchange reactions in liquid ammonia

CITED SOURCE: Sb. tr. Gos. in-ta prikl. khimii, vy\*p. 49, 1962, 133-140

TOPIC TAGS: hydrogen exchange, tritium, deuterium, isotopic effect, thermodynamic isotope effect, kinetic isotope effect, liquid ammonia

TRANSLATION: Coefficients of distribution and rate constants were determined at several temperatures for the exchange of deuterium and tritium in benzene with liquid ammonia. It is shown that the thermodynamic isotope effect is constant and equals & D/QT = 1.4. The kinetic isotope effect (KIE) decreases gradually in benzene as the temperature rises from 0 to 40C. At 25C the KIE and the tritium distribution coefficient of in naphthalene are equal, within the limits of accuracy of these measurements, to the corresponding values for exchange in ben-zene. A positive KIE (1.4 - 1.3) was observed for exchange in cyclohexane at

Card 1/2

ACCESSION NR: AR4020482

120C. An evaluation is given of the possible mechanism of origin of the KIE due to dissimilar tunnel effects of tritium and deuterium. Authors' summary

DATE ACQ: 18Feb64

SUB CODE: CH, PH

ENCL: 00

2/2

Card

ZATSEPINA, N.N.; TUPITSYN, I.F.; EFROS, L.S.

Isotopic exchange of hydrogen in methyl derivatives of nitrogen heterocycles and their oxides. Part 1: A-picoline, quinaldine, and their N-oxide. Zhur. ob. khim. 33 no.8:2705-2712 Ag '63. (MIRA 16:11)

ZATSEPINA, N.N.; TUPITSYN, I.F.; EFROS, L.S.

Electronic structure and the rate of deuterium exchange in methyl groups of nitrogen heterocycles and their N-oxides.

Dokl. AN SSSR 154 no.1:148-151 Ja'64. (MIRA 17:2)

1. Gosudarstvennyy institut prikladnoy khimii. Predstavleno akademikom A.N. Tereninym.

ADAMOV, M.N.; TUPITSYN, I.F.

Use of the free electron method in studying the effect of hyperconjugation. Vest. LGU. 18 no.16:41-46 '63. (MIRA 16:11)

47

TUPITSYN, I.F.

PHASE I BOOK EXPLOITATION

SOY/6333

Bochkarev, V. V., ed.

Tekhnika izmereniye radioaktivnykh preparatov; sbornik statey (Technika izmereniye radioaktivnykh preparatov; sbornik statey (Techniques for the Measurement of Radioactive Preparations; Collection of Arvicles) Moscow, Gosatomizdat, 1962. 4600 copies printed.

Eds.: A. M. Smirnova and M. A. Smirnov; Tech. Ed.: S. M. Popova.

PURPOSE: This book is intended for specialists in nuclear instrumentation.

COVERAGE: The book is a collection of articles on recent developments in 1) measurement of the activity and 2) analysis of the composition of emissions of radioactive preparations. The methodology and apparatus used in these studies are described in detail. References are given at the end of each article.

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ADAMOV, M.N.; TUPITSYN, I.F.

Theoretical study of reactivity in substitution reactions of molecules with conjugate bonds using the free electron method.

Part 3 Tive-membered nitrogen heterocycles. Vest.LGU 17 (MIRA 15:12) no.22:11 18 62. (Nitrogen compounds)

ADAMOV, M.N.; TUPITSYN, I.F.

Theoretical study of reactivity in substitution reactions of molecules with conjugate bonds using the free electron method. Part 1. Alternant and nonalternant hydrocarbons. Vest. LGU 17 no.16:47-57 '62. (MIRA 15:9) (Chemical reactions) (Hydrocarbons)

ADAMOV, M.N.; TUPITSYN, I.F.

Theoretical study of reactivity in substitution reactions of molecules with conjugate bonds using the free electron method.

Part 2. Six-membered nitrogen heterocycles. Vest. LGU 17 no.16:58-65 162.

(MIRA 15:9)

(Chemical reactions) (Heterocyclic compounds)

TUPITSYN, I.F.; FRADKIN, G.M., nauchnyy red.; KOKOSOV, L.V., red.; KOR-SHUNOVA, N.I., tekhn. red.

[Deuterium and tritium, heavy hydrogen isotopes] Tiazhelye izotopy vodoroda deiterii i tritii. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 36 p. (MIRA 14:11) (Deuterium)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510008-7"

TUPITSYN, I.F.; FRADKIN, G.M., nauchnyy red.; KOKOSOV, L.V., red.; VLASOVA, N.A., tekhn. red.

[Radioactive carbon C<sup>14</sup>] Radioactivnyi uglorod - C<sup>14</sup>. Moskva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i takhniki, 1961. 34 p.

(Carbon-Isotopes)

TUPITSYN, 1: F

PHASE I BOOK EXPLOITATION SOV/5404

Murin, A. N., V. D. Nefedov, and V. P. Shvedov, eds.

Radiokhimiya i khimiya yadernykh protsessov (Radiochemistry and the Chemistry of Nuclear Processes) Leningrad, Goskhimizdat, 1960. 784 p. Errata slip inserted. 13,000 copies printed.

Ed.: F. Yu. Rachinskiy; Tech. Ed.: Ye. Ya. Erlikh.

PURPOSE: This textbook is intended for students of physical chemistry or radiochemistry at universities and schools of higher education. It may also serve as a handbook for scientific workers and technical personnel in the radiochemical industries and other related branches.

coverage: The textbook deals with problems in modern radiochemistry, including adsorption, cocrystallization, isotope exchange in radioactive elements, the chemistry of nuclear processes, and methods of preparing radioactive isotopes and labeled compounds. Special attention has been given to chemical processes caused by radioactive transformations and radiation. In the main the book was compiled by person-Card—1/16

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ſ	L 34473-66 EWP(j) WW/JW/RM  SOURCE CODE: GE/0070/66/002/001/0023/0032
	AUTHOR: Tupitsyn, I. F.; Semenova, N. K.; Zatsepina, N. N.; Musakin, A. A.
	one. Institute for Applied Chemistry, Leningrad
	TITIE: Basic exchange hydrogen reaction of some nitrous heterocycles in liquid ammonia: kinetics, relation with electron structure, mechanism [This paper was presented at the 3rd Conference on Stable Isotopes held in Leipzig in October 1963.]
	1. 1966, 23-32
	TOPIC TAGS: pyridine, heterocyclic base compound, chemical kinetics, ammonia, toluene, radiation chemistry, isotope  ABSTRACT: The reactivity of the different positions of the aromatic ring of pyridine, quinoline, acridine, and phenazine was studied in the deutero-exchange reaction with quinoline, acridine, and phenazine was studied in the deutero-exchange reaction with the NH <sub>2</sub> + NH <sub>3</sub> (liq.) solution. The rate constants, activation parameters, and kinetic isotope effects were determined. The kinetics of hydrogen exchange in kinetic isotope effects were determined. The kinetics of hydrogen exchange in toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The findings toluene and α- and β-picoline with the solution were also studied. The fin
	Card 1/1 92

TUPITSYN, K.K.; VASIL'YEV, B.P.

4.1

Analysis of the synchronization system of a hydraulic process.

Trudy Inst. avtom. i elektrometr. SO AN SSSR no.6:86-94 164.

(MIRA 17:10)

BESSONOV, L.A.; .RTEMOVA, T.I., red.; TUPITSYNA, L.A., red.;
FOTIYEV, V.M., red.

[Nonlinear electrical networks] Nelineinye elektricheskie tsepi. Izd.2., perer. i dop. Petrozavodsk, Vysshaia shkola, 1964. 429 p. (MIRA 17:8)

VOLOKHOV, A.N.; VOROBYEV, A.A.; FEDOROV, M.F.; CHERTOV, A.G., dots.; DUBOV, V.P., dots., retsenzent; ARTEMOVA, T.I., red.; TUPITSYNA, L.A., red.

[Problems in physics with examples of their solution and reference materials] Zadachnik po fizike s primerami resheniia zadach i spravochnymi materialami. Petrozavodsk, Rosvuzizdat, 1963. 399 p. (MIRA 17:6)

1. Moskovskiy poligraficheskiy institut (for Dubov).

TIMOFEYEVA, L.V.; MITROFANOV, A.M.; MARKOVICH, N.Ya.; MURAV'YEVA, T.V.; SHVAN'KOV, M.Ye.; TUPITSYN, L.F.

Successful results in controlling bloodsucking black flies (Diptera, Simuliidae) by treating the breeding grounds; preliminary report. Med.paraz.i paraz. bol. no.123-9 '62. (MIRA 15:5)

1. Iz entomologicheskogo otdela (zav. - prof. V.N. Beklemishev)
i otdela entomotoksikologii (zav. - prof. V.A. Nabakov) Instituta
meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I.
Martsinovskogo (dir. - prof. P.G. Sergiyev) Ministerstva zdravookhraneniya SSSR.

(BLACK FLIES-EXTERMINATION) (DDT (INSECTICIDE))

## TUPITSYNA, L.I.

Phagocytic properties of the blood in children vaccinated against typhoid fever. Zhur. mikrobiol., epid. i imm. 41 no. 2:144-145 F '64. (MIRA 17:9)

1. Rostovskiy meditsinskiy institut.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510008-7"

### TUPITSYN, M.N.

Second conference of groups and shock workers of communist labor in the Urals. Razved. i okh. nedr 26:no.12:52-54 D '60. (MIRA 13:12)

1. Ural'skiy territorial'nyy komitets profsoyuza.
(Prospecting)

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GAVRILOV, V.G.[translator]; KLIMOVA, M.Ye.[translator]; MITEMEYT,
B.A.[translator]; TIKHOHOV, N.S.[translator]; TUPITSYN,
D.V.[translator]; SHAHTANOV, S.K.[translator]; FEROMOVA,
L.N., red. izd-ve; GUROVA, O.A., tokhr. red.

[Fundamentals of the tectonics of China]Osnovy tektoniki
Kitaia. Moskva, Googooltokhizdat, 1962. 526 p. maps.
Translated from the Chinese. (MIRA 15:11)

(China—Geolog, Structural)
```

VASIL'YEV, V.V.; VRONSKIY, B.I.; YEROFEYEV, B.N.; KECHEK, G.A.; KOSOV, B.N.;
TUPITSYH, H.V.; TSAREGRADSKIY, V.A.; SHATALOV, Ye.T.

Sergei Dmitrivich Rakovskii, obituary. Geol.rud.mestorozh.
(MIRA 15:6)

ino.3:133-134 My-Je '62.
(Rakovskii, Sergei Dmitrievich, 1899-1962)

LI SY-GUAN [Li Saŭ-kueng]; SUN' DYAN-TSIN [Sun Tien-ch'ing]; U LEY-BO;
TUPITSIN, N.V.[trensletor]; PAVLINOV, V.N., prof., red.; FEDOROVA, L.N., red. Izd-ve; GUROVA, O.A., tekhn. red.

[Vortical and other rotary structures and the relationship between tectonic systems. Translated from the Chinese] Vikhrevye i drugie struktury vrashcheniia i problemy sochetaniia tektonicheskikh sistem. Pod red. V.N. Pevlinova. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1960.

(MIRA 14:5)

1. Kitayakaya Akademiya nauk (for Li Sy-guan) 2. Kabinet geodinamiki Ministeratva geologii Kitaya (for Sun' Dyan'-tain, U Ley-bo) (China--Geology, Structural)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510008-7"

4 ......

KUDRYAVTSEV, V.A. [translator]; MOISEYEVA, V.M. [translator]; TUPITSYN,
N.Y.[translator]; TSZYAN TSZU-TSZE [Chieng Tsu-chieh] [translator];
PAVLINOV, V.N., prof., red.; SAMARCHYAN, L.M., red.izd-va;
POSPELOVA, A.M., red.izd-va; GUROVA, O.A., tekhn.red.

[Transactions of the First Conference on Recent Tectonic Movements in China] Trudy Pervogo soveshchaniia po neotektonike Kitaia; sbornik dokladov. Moskva, Gos.nauchno-tekim.izd-vo lit-ry po geol. i okhrane nedr. 1960. 185 p. (MIRA 13:12)

1. Soveshchaniye po neotektonike Kitaya, lat, Peking, 1956. (China--Geology, Structural)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510008-7"

 $\mathcal{Z}_{1}, z_{1} \in \mathcal{Z}_{1}^{1}, \left( \frac{1}{2}, \frac{$ 

NALIVKIN, D.V., akademik, red.; TUPITSYN, N.V.; SERGEYEVA, N.A., red. izd-va; MAKEYEV, V.I., red.izd-va; GUROVA, O.A., tekhn. red.

[Planetary geology; some general tectogenetic factors and characteristics of the distribution of mineral deposits] Problemy planetarnoi geologii; o nekotorykh obshchikh prichinakh tektogeneza i zakonomernostiakh razmeshcheniia mestorozhdenii poleznykh iskopaemykh. Moskva, Gosgeoltekhizdat, 1963. 341 p. (MIRA 16:5)

(Astronomical geology)

TUPITSYN, N.Ye.; OKHIEM, A.A.

Ways to increase the output of cement. 1Bement 28 no.6:5-6 E-D 162.

(Cement plants)

TUPITSYN, O. V.

Tupitsyn. O. V. — "Investigation of the Stability of Operation of the Mechanism of Astronomic Clocks With Free or Loaded Pendulums." Cand Tech Sci, Moscow Higher Technical School, Moscow 1953. (Referativnyy Zhurnal—Astronomiya, Jan 54)

SO: SUM 168, 22 July 1954

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510008-7"

FUFFI SYNG.V

AUTHOR:

Tupitsyn, O.V.

115-5-32/44

TITLE:

Spring Suspension-Rods for Pendulums of Astronomic Clocks (O pruzhinnykh podvesakh mayatnikov astronomicheskikh chasov)

PERIODICAL:

"Izmeritel'naya Tekhnika", No 5, Sep-Oct 1957, pp 76-77 (USSR)

ABSTRACT:

The article describes design and production technology of a spring-type pendulum suspension employed by the plant "Etalon" in manufacturing astronomic clocks. Design of the spring suspension is described in full detail, including dimensions, tolerances, and grade of finish. It was confirmed by experiments that the cause of systematic advance of movement was caused by the properties of the suspension material. A heat treatment technology, described in detail, was worked out for spring steel 50ΧΦΑ that possesses the necessary stable resilience and hardness. The suspension-manufacture heat treatment and the finishing in a special fixture are described in detail and shown by a drawing. The suspensions were mounted in the astronomic time-service clocks. Study during several years by VNIIFTRI has shown that the pendulum suspensions fully met the requirements and that the systematic advance of movement is eliminated. The described heat treatment technology was also applied by KhGIMIP in the production

Card 1/2

Spring Suspension-Rods for Pendulum of Astronomic Clocks

115-5-32/44

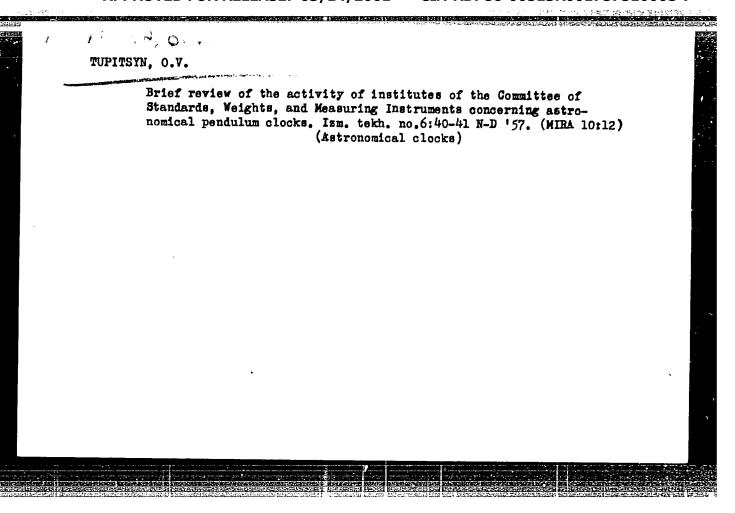
of isochronizing suspension-rods. The technology practiced by the "Etalon" plant is recommended also for the production of chronometer hair springs.

The article contains 2 drawings.

AVAILABLE:

Library of Congress

Card 2/2



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L 19574-63 EWT(1)/BDS AFFTC/ASD/ESD-3/AFWL RB/MLK(a)
ACCESSION NR: AP3008206 S/0286/63/000/013/0052/0052

AUTHOR: Bozhevikov, N. S.; Shestopalov, L. A.; Tupitsy\*n, O. V.

TITLE: Device for measuring the height of cloud cover. Class 42, No. 155639

SOURCE: Byulleten' izobreteniy i tovarny\*kh znakov, no. 13, 1963, 52

TOPIC TAGS: cloud height measuring device, cloud cover height, quantum mechanical generator, generator, triangulated cloud cover height, meteorological instrument

ABSTRACT: The patent introduces a device for measuring cloud-cover height by the triangulation method. The device incorporates a quantum generator thereby increasing both the range and accuracy of the measurements.

ASSOCIATION: none

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ORG: none  FITLE: Practical realization of a method for the autocompensation of a signal from haze  SOURCE: Leningrad. Nauchno-issledovatel skiy institut gidrometeorologicheskogo priborostroyeniya. Trudy, no. 15, 1966, 7-12 and signal from haze the second priborostroyeniya. Trudy, no. 15, 1966, 7-12 and signal from haze the projector for determining the height of the cover boundary of clouds is described in detail, and difficulties encountered in using it are discussed. The device (patented by the nuthor—No. 144041) was designed to increase the sensitivity of priangulation devices for cloud height measurement by autocompensation of the signal from haze—sensitivity is increased by one order while the signal from haze—sensitivity is increased by one order while the 30-1000 m operating range of the apparatus is retained. The equipment comprises a projector and a variation of a scanning receiver. The projector PI-45 or PI-60 is provided with a flash lamp in place of the incandescent lamp and with a high voltage power pack. In the	UTHOR: Tupitsyn, O. V.	
SOURCE: Leningrad. Nauchno-issledovateliskiy institut gidrometeorologicheskogo priborostroyeniya. Trudy, no. 15, 1966, 7-12 atmospheni attorio properties attorio pro	RG: none	
POPIC TAGS: meteorologic instrument, pulsed light cloud, indicator, cloud detection, and a circular conditions, clouds and careful detection, and circular conditions, clouds and described in detail, and difficulties ancountered in using it are discussed. The device (patented by the author—No. 144041) was designed to increase the sensitivity of criangulation devices for cloud height measurement by autocompensation of the signal from haze—sensitivity is increased by one order while the 30-1000 m operating range of the apparatus is retained. The equipment comprises a projector and a variation of a scanning receiver. The projector PI-15 or PI-60 is provided with a first large of the apparatus of the sensitivity is a condition of a scanning receiver.	ITLE: Practical realization of a raze	method for the autocompensation of a signal from
encountered in using it are discussed. The device (patented by the authorNo. 144041) was designed to increase the sensitivity of criangulation devices for cloud height measurement by autocompensation of the signal from hazesensitivity is increased by one order while the 30-1000 m operating range of the apparatus is retained. The equipment comprises a projector and a variation of a scanning receiver. The projector PI-15 or PI-60 is provided with a float large of the sensitivity.	idrometeorologicneskogo pribore	ostroyeniya. Trudy, no. 15, 1966, 7-12
	STRACT: A new tracking record over boundary of clouds is described in using it are discretion. It is designed that the signal from haze-sensiting 30-1000 m operating range of quipment comprises a projector projector PI-15 or PI-60 is	der for determining the height of the cribed in detail, and difficulties cussed. The device (patented by the device) to increase the sensitivity of height measurement by autocompensation ivity is increased by one order while the apparatus is retained. The and a variation of a scanning receiver.

ACC NR: AT7001805

receiver the field of view is divided in half, both halves able to receive adjacent portions of the light beam from the projector. Haze signals will be obtained from any operating position of the receiver: the values of these signals are so close that when they are algebraically added in the bridge circuit their difference is less than the sensitivity of the system and the device will not react to them. However, a signal from a light spot on a cloud will unbalance the circuit until the receiver is brought to such a position that the light spot is symmetrical in both halves of the field of view, at which time the cloud ceiling can be read. The receiver may be a parabolic reflector or a lens with the diaphragm of the field of view in its focus. The scanning section of the apparatus comprises the prism system, photoelements with a bridge circuit and a preamplifier connected by an electric cable to the main amplifier and the power pack. A switch for reversing the motor and a synchro converter for converting the angle of the position of the scanner into voltage are positioned on the shaft of the scanner. Thus the motor is activated by signals from the amplifier and from the switch; from the moment the receiver is switched on the motor will raise or lower the receiver until a light spot is in one half of the field of view; the motor control unit then brings the system into position so the bridge current is balanced. The automatic recorder utilizes a conventional M-375 self-registering 2 ma milliammeter. Preliminary tests showed this cloud height recorder automatically compensates for haze and distinguished the signals from clouds. The signa, however, are weaker than calculated, because of receiver liminations only a portion of the signal fall by the field of view of the reflector, and in the case of the lens there is no compensation for the weakening of the signal as it enters the optical system. Need for

Card 2/3

dannongad 11	001805 ght output by the projector	is indicated. Orig. art. has:	5 figures [06]
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**APPROVED FOR RELEASE: 03/14/2001** 

ACC NR: AT5022098

UR/2778/65/000/014/0075/0037

AUTHOR: Tupitsin.

TITLE: Automatic compensation of the background signal in triangularization type cloud ceiling indicators

SOURCE: Leningrad. Nauchno-issledovatel skiy institut gidrometeorologicheskogo priborostroyeniya. 2r idy, no. 14, 1965, 75-87

TOPIC TAGS: meteorological instrument, cloud level, cloud cover

ABSTRACT: The paper contains an analysis of the precision limits of cloud level measurement by an improved instrument, with an automatic compensation of the background "fog" signal. The instrumentation system is basically a conventional oscillating optical scanner examining the bright cloud reflection spots produced by a remotedly located vertical beam searchlight. The proposed compensation is achieved by splitting the field of vision of the scanner photocell into two halves and evaluating their signal difference. Encounter with a bright spot during scanning produces then a positive and a negative pulse due to the time difference in the signal appearance in the first and the second half of the split field. The cloud ceiling height is determined by the zero crossing point between the pulses. A detailed description of the instrument has been given by the author before (Avtorskoye swidetel'stvo No. 14401). Analysis and comparison with the presently operational equipment (e.g. RNGO A-26) based upon the

Card 1/2

CIA-RDP86-00513R001757510008-7"

ACC NR: AT5022098  triangularization principle without proposed system. Its signal-to-required order of magnitude) for all practical advantages permit also the elimination choices and adjustments of sensitivity measurements, the measurements depend of upon the beginning of the working	red sensitivity ratio is a l base distances and cloud on of operator's subjective ty. There is also a more c ling upon the centers of t	uperior (larger by an ceiling altitudes. The influence via his consistent record of the he bright spots instead
ASSOCIATION: NIIGMP		
SUBMITTED: 00	ENCL.: 00	SUB CODE: 08
NO REF SOV: 002	OTHER: 00	
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TUPITSYN, P., kand. tekhn.nauk

Signal whistle for adjusting ignition. Avt. transp. 37 no.10:54
0 '59.

(Automobiles-Ignition)

(MIRA 13:2)

# TUPITSYN, P., kand. tekhn. nauk

Device for determining the technical condition of the cylinder-piston unit and valves. Avt.transp. 38 no.6:23-25 Je '60. (MIRA 14:4)

1. Lenfilial Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta.

(Motor vehicles-Maintenance and repair)

TUPITSYN, Petr Sergeyevich, kand. tekhn. nauk; BARANOV, A.Ya., red.

[Checking technical conditions of the cylinder-piston group and valves of motor-vehicle engines without dismantling] Kontrol' tekhnicheskogo sostoianiia tsilindro-porshnevoi grupy i klapanov avtomobil'nykh dvigatelei bez razborki. Moskva, Avtotransizdat, 1963. 25 p. (MIRA 17:4)

TUPITSYN, Petr Sergeyevich, kand.tekhn.nauk; BODRILIN, A.P., red.; DONSKAYA, G.D., tekhn.red.

> [Determining technical state of the cylinder-piston group of automobile carburetor engines] Metody opredeleniis tekhnicheskogo sostoianiia tsilindro-porshnevoi gruppy avtomobil'nykh karbiuratornykh dvigatelei. Moskva, Avtotransisdat, 1960. 27 p.

(Automobiles--Engines--Cylinders)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001757510008-7"

(MIRA 13:7)

TUPITSYN Petr Sergeyevich, kand. tekhn. nauk; BARANOV, A.Ya., red.; GALAKTIONOVA, Ie.N., tekhn. red...

[Checking the technical condition of the cylinder-piston group and valves of motor-vehicle engines without dismantling] Kontrol' tekhnicheskogo sostoianiia tsilindro-porshnevoi gruppy i klapanov avtomobil'nykh dvigatelei bez razborki. Moskva, Avtotransizdat, 1963. 25 p.

(MIRA 16:9)

(Motor vehicles-Engines)

SOV/137-59-3-5930

人對於我認定的

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 140 (USSR)

Blagodatskiy, L. I., Ignashin, V. F., Klimovitskiy, Z. L., Tupitsyn, AUTHORS:

S.P.

環鎖的日

A Gantry-type, Two-electrode Machine for Two-sided Spot Welding TITLE:

(Portal' naya dvukhelektrodnaya mashina dlya dvukhstoronney

tochechnoy svarki)

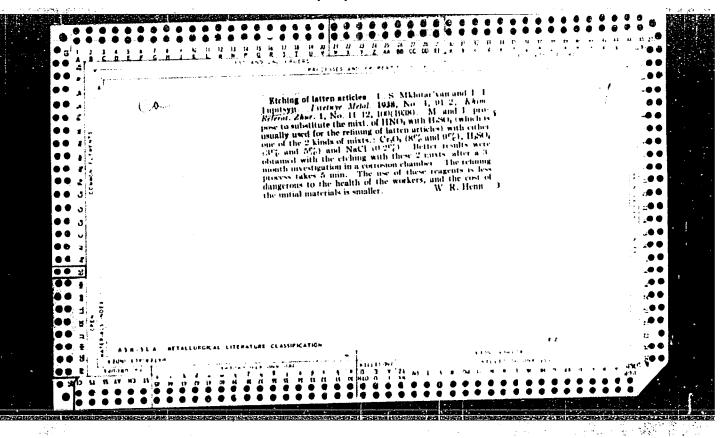
PERIODICAL: Byul. tekhn-ekon. inform. Sovnarkhoz Bryanskogo ekon. adm. r-na, 1958, Nr 1, pp 28-31

ABSTRACT: A machine for resistance spot welding of the sides of all-metal,

large-capacity refrigerator cars was developed and adopted at the Bryansk machine-building plant. The machine is capable of performing two spot welds simultaneously. The current for each electrode is supplied from two transformers of a capacity of 150 kva each. Under completely mechanized conditions, the productivity of the machine amounts to 2000 spot welds per hour. The members being welded are 2-4 mm thick. A block diagram of

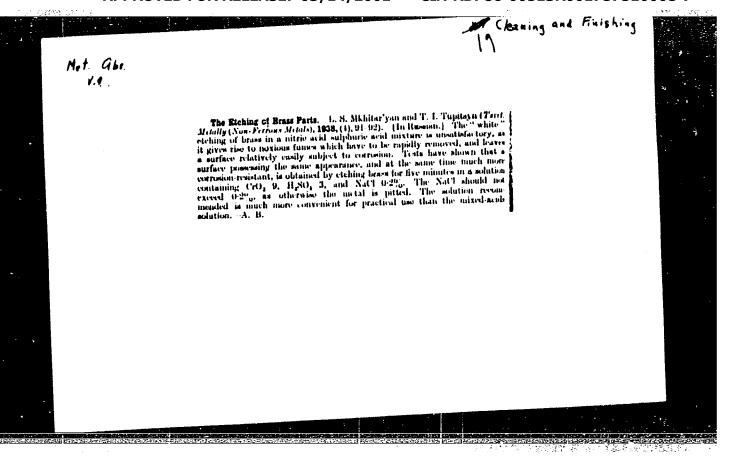
the electrical system is presented together with over-all views of

the machine and of the complete installation. Card 1/1



### "APPROVED FOR RELEASE: 03/14/2001

#### CIA-RDP86-00513R001757510008-7



USSR/ Electronics - Radio

Card 1/1 Pub. 89 - 5/30

Authors : Tupitsyn, V.

Title : For developing ultra-short-wave sport

Periodical: Radio 1, page 9, Jan 56

Abstract : The activities of various amateur radio organizations in Moscow and

Rostov are related with a description of some of the material used by

them.

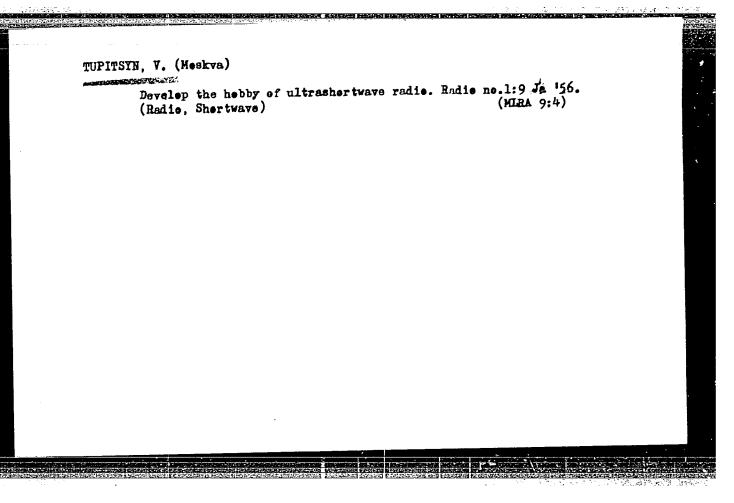
Institution : ....

Submitted : ....

TUFITSY", V.

36260 Moy metod formovaniya i pressovaniya yaroslavskogo syra. (Iz opyta mastera i-go klassa). Moloch. Prom-st', 1949, No. 11, s. 41-42

SC: Letopis' Zhurnal'nykh Statey, No. 49, 1949



36260 For Motod Formovahiya i Pressov nipe Baroslavekogo Symn. (16 ogjit mestema 1-9o Klassa.) Poloch Prom-st., 1949, No. 11, S. 41-42	
00: Letojis' Zhurnal'nykh Stritey, No. 79, 19%	
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TUPITSYN, V. M., Eng.; AYZENBERG, N. M., Eng.

Spires

Dismantling of crane and installation of spire on tall buildings. Mekh. stroi. 9, no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.